Recombinant Human GH2

Cat. No. GH2-29022TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Recombinant full length proteincontaining 192 amino acids, 23kDa.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. The five genes share a remarkably high degree of sequence identity. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. As in the case of its pituitary counterpart, growth hormone 1, the predominant isoform of this particular family member shows similar somatogenic activity, with reduced lactogenic activity. Mutations in this gene lead to placental growth hormone/lactogen deficiency.
Form	Lyophilised:Reconstitute in 0.4% NaHCO3or water adjusted to pH 9, to not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 0.0045mM Sodium bicarbonate, pH 8-9 (previously adjusted)

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Phe-Pro-Thr-Ile.
Full Length	Full L.

GENE INFORMATION

Gene Name	GH2 growth hormone 2 [Homo sapiens]
Official Symbol	GH2
Synonyms	GH2; growth hormone 2; growth hormone variant; GH V; GHL; GHV; hGH V; placenta specific growth hormone; placental specific growth hormone;
Gene ID	2689
mRNA Refseq	NM_002059
Protein Refseq	NP_002050
MIM	139240
Uniprot ID	P01242
Chromosome Location	17q22-q24
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor

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	interaction, conserved biosystem; Growth hormone receptor signaling, organism-specific biosystem; Immune System, organism-specific biosystem;
Function	hormone activity;

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